

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584737

Luminaire Tested: **HC845D010-HM82555930-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC845D010-HM82555930-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4736.6 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

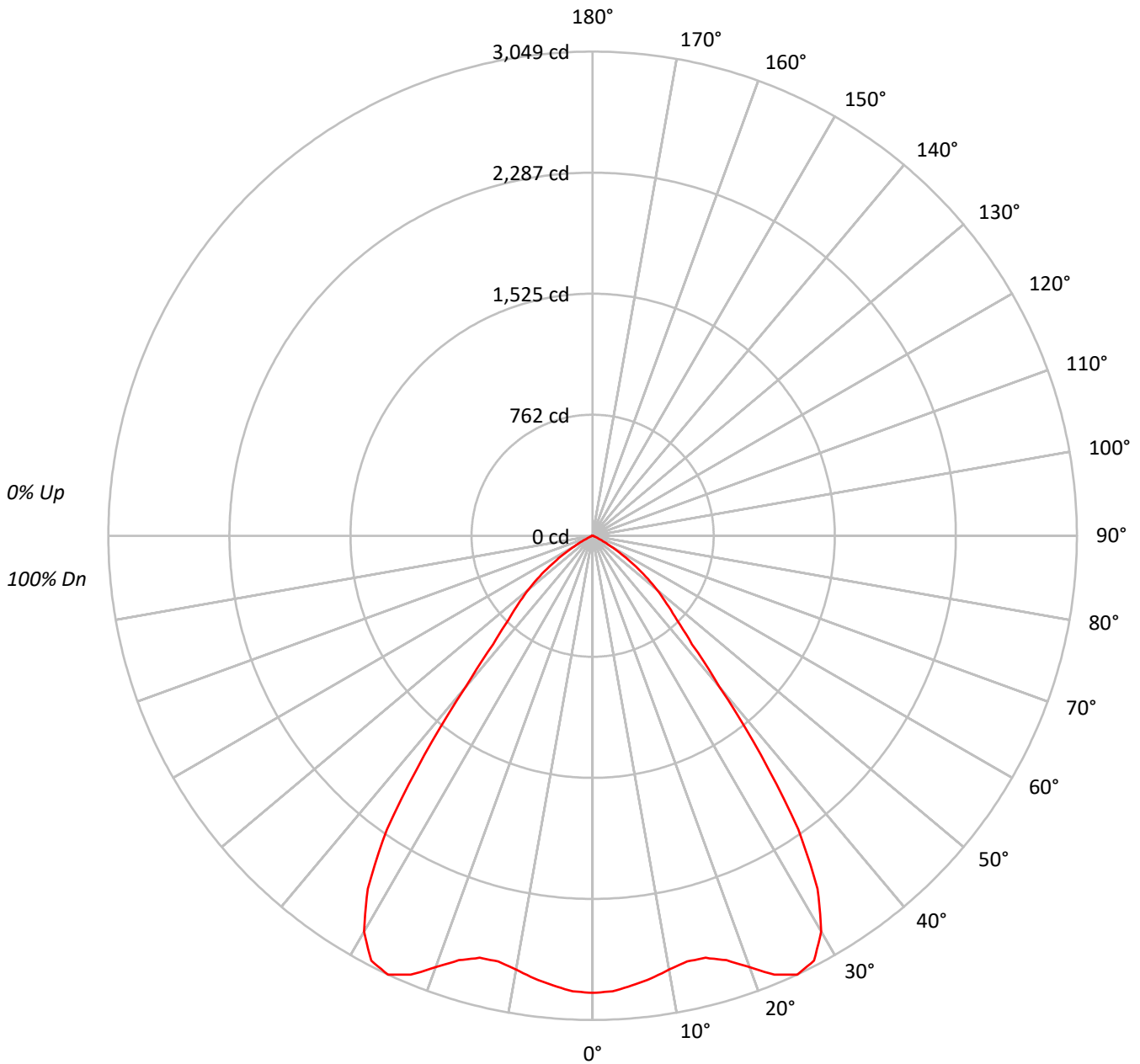
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584737

CATALOG NUMBER: HC845D010-HM82555930-81WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P584737

CATALOG NUMBER: HC845D010-HM82555930-81WDBB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	88747
5°	88009
10°	86850
15°	87839
20°	94856
25°	103729
30°	102476
35°	85004
40°	50032
45°	32685
50°	25339
55°	16833
60°	8190
65°	2539
70°	857
75°	751
80°	568
85°	1132



TEST NUMBER: P584737

CATALOG NUMBER: HC845D010-HM82555930-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	5.7
10°-20°	790.5	16.7
20°-30°	1382.1	29.2
30°-40°	1344.4	28.4
40°-50°	611.4	12.9
50°-60°	283.5	6.0
60°-70°	47.5	1.0
70°-80°	5.8	0.1
80°-90°	2.2	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2441.8	51.6
0°-40°	3786.2	79.9
0°-60°	4681.1	98.8
0°-90°	4736.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2878	
5°	2843	269
15°	2752	790
25°	3049	1382
35°	2258	1344
45°	750	611
55°	313	283
65°	35	47
75°	6	6
85°	3	2
90°	0	



TEST NUMBER: P584737

CATALOG NUMBER: HC845D010-HM82555930-81WDBB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2878.0
2.5°	2871.6
5°	2843.2
7.5°	2811.6
10°	2773.7
12.5°	2745.2
15°	2751.5
17.5°	2802.1
20°	2890.6
22.5°	2991.9
25°	3048.7
27.5°	3017.2
30°	2878.0
32.5°	2634.4
35°	2258.1
37.5°	1739.4
40°	1242.9
42.5°	926.7
45°	749.5
47.5°	632.5
50°	528.2
52.5°	420.6
55°	313.1
57.5°	215.0
60°	132.8
62.5°	72.7
65°	34.8
67.5°	15.8
70°	9.5
72.5°	6.3
75°	6.3
77.5°	3.2
80°	3.2
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)